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ISSN 0097-0905



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# Inspection of Commercial Fertilizers—1984

By Lester Hankin

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## INSPECTION OF COMMERCIAL FERTILIZERS--1984

by Lester Hankin

During 1984, 258 samples of fertilizer and fertilizer ingredients were examined. Of this number and included in this Bulletin are 235 official samples collected by inspectors in the Connecticut Department of Agriculture for authenticity of label guarantee and compliance with State Regulations. The remainder of the samples tested were for farmers, Station departments, those questioned for authenticity, and miscellaneous materials. Although all label guarantees are examined, only the results for the major plant nutrients of nitrogen, phosphoric acid, and potash are presented here.

Table 1 shows individual samples from 44 manufacturers. The number designating each sample, as for example 10-10-10, indicates the guaranteed percentage for nitrogen (N), phosphoric acid (P2O5), and potash (K2O), in that order. A brand name, if available, follows. The actual content found is then shown, with deficiencies identified by an asterisk (\*). Table 2 summarizes for each manufacturer the number of guarantees examined for each plant nutrient, the percentage of the samples not meeting their guarantee, and the average percentage of guarantee found. Table 3 shows distribution of mixed fertilizer sold in Connecticut. Only formulations prepared by at least three manufacturers are shown; other formulations are placed in the miscellaneous category. The tonnage of fertilizer material and mixed fertilizer sold in Connecticut is shown in Table 4.

Two types of variability affect fertilizer analysis and must be considered in judging deficiencies. The first is the variability among different batches of the same formulation from a manufacturer. This variability can be noted in Table 1 by examining the analyses of the same formulation from the same manufacturer. The second type of variability is between duplicate analyses of the same sample. The variability among duplicate analyses is shown in the statement: the mean difference between duplicates for nitrogen is four-tenths percent, for phosphoric acid it is one-fourth percent, and for potash one-fifth percent.

Fertilizer samples are deemed deficient in any nutrient if the analysis is below the guarantee by more than the values established by the Association of American Feed Control Officials. Overall, 227 guarantees for nitrogen were made and 17% were deficient, 223 guarantees for phosphoric acid and 15% were deficient, and 224 guarantees for potash and 5% were deficient.

Analyses were performed by H. Kocaba, M. Pyles, M.A. Illig, and E. Hickson. Samples were collected by J. Dippel, D. Nisely, and A. VanDyke under the direction of K. Veit. Fertilizer laws are administered by the Commissioner of Agriculture.

Lester Hankin  
Chief, Analytical Chemistry



Table 1. Analysis of Individual Samples of Commercial Fertilizers.

Manufacturer, guarantee, & brand	Nutrients found			Nutrients found		
	% Nitrogen	% P <sub>2</sub> O <sub>5</sub>	% K <sub>2</sub> O	% Nitrogen	% P <sub>2</sub> O <sub>5</sub>	% K <sub>2</sub> O
<u>ADCO Works</u>						
No guar.	ADCO Organic Plant Food	7.7	3.6	0.9		
<u>Agrico</u>	05-10-05	Agrico Village Green	*2.9	11.6	5.2	
	05-10-10	Agrico	*2.8	*6.0	9.5	
	10-06-04	Agrico Village Green	*7.1	5.5	4.8	
	10-08-10	Agrico	*8.8	*7.0	13.7	
	10-10-10	Agrico Village Green	9.9	9.9	11.3	
	10-20-10	Agrico	9.4	21.7	9.3	
	15-08-12	Agrico	*12.4	7.8	14.1	
	46-00-00	Agrico Urea	47.4			
	46-00-00	Agrico Urea	46.9			
<u>Agway</u>						
00-10-43	Agway Blend		*7.6	44.4		
00-10-43	Agway Blend		10.7	44.9		
00-10-44	Bulk		10.4	42.9		
05-10-05	Agway Garden Plant Food	4.6	9.7	6.4		
05-10-10	Agway Plant Food	5.0	10.1	9.5		
08-04-04	Agway Evergreen Plant Food	9.5	5.0	4.4		
08-16-16	Agway Super Garden	8.6	16.2	16.1		
08-16-16	Agway Super Garden Plant Food	8.5	*14.5	18.0		
10-10-10	Agway	11.0	12.5	10.8		
10-10-10	Agway Blend Rite	*8.3	10.3	9.5		
11-24-24	Bulk	15.8	23.8	*21.0		
12-24-24	Agway Blend	10.9	24.0	31.0		
16-32-16	Agway Start & Gro	17.1	33.6	17.9		
20-09-24	Agway Blend	21.0	*6.0	36.0		
20-10-20	Agway Blend	26.9	9.3	*16.8		
20-10-20	Agway Blend	22.9	10.4	20.5		
20-13-20	Bulk	26.0	14.5	20.8		
20-20-20	Agway Sol-U-Green	19.5	21.6	24.2		
22-16-16	Agway	26.9	17.9	16.7		
23-08-21	Bulk	28.1	8.9	23.4		
23-11-19	Agway	34.1	9.6	*14.1		
23-12-18	Agway Blend	25.4	*9.3	22.2		
23-12-18	Bulk	23.3	16.7	17.6		
27-02-20	Agway Blend	23.8	4.1	27.5		
35-03-10	Agway Blend	*28.8	3.9	22.9		
<u>Alljack Co.</u>						
15-30-15	K-Gro All Purpose Plant Food	16.8	33.4	19.9		
<u>Chevron Chemical Co.</u>						
05-10-05	Ortho House Plant Food					
<u>Anderson</u>						
25-03-06	Hart's Prem. Crabgr. Prev/Ln Food	30.6				
26-04-08	Stanford's Old English Lawn Food	27.3				
28-04-12	Hart's Premium Lawn	33.0				
28-04-12	Hart's Premium Lawn Fert.	27.8				
<u>Atlas Fish Fertilizer Co.</u>						
05-01-01	Atlas Org Fish Emul Plant Food	4.7				
<u>BFC Chemical</u>						
38-00-00	Blue Chip Nitroform Slow Rel. N	39.2				
<u>Burpee</u>						
18-04-07	Burpee Grow Azalea, Cam. & Rhod.	18.2				
18-12-14	Burpee Grow Flowers	19.5				
18-24-06	Burpee Grow Transplants	19.4				
18-24-06	Burpee Grow Vegetables	18.2				
20-04-08	Burpee Grow Shrubs, Trees, Evergrns	20.8				
<u>Cadwell &amp; Jones</u>						
05-10-05	Surge	6.2				
05-10-05	Surge Lawn & Garden Fert.	4.5				
05-10-05	Surge Lawn & Garden Fert.	6.8				
05-10-10	C & J Specialty	*3.2				
05-10-10	C & J Specialty Fert.	*3.7				
05-10-10	C & J Specialty Fert.	5.5				
05-10-10	Surge Plant Food, Veg & Flower	*4.2				
10-06-04	C & J Hi-Organic Fert.	*8.8				
10-06-04	Surge	*7.1				
10-06-04	Surge Lawn & Garden	*7.4				
10-08-10	C & J Fert.	10.7				
10-10-10	C & J Specialty	*8.5				
10-10-10	C & J Specialty Fert.	10.3				
10-10-10	C & J Specialty Fert.	11.8				
10-10-10	C & J Specialty Fert.	11.3				
13.75-00-44.5	C & J Specialty Fert. Pot. Nit.	*11.4				
15-15-15	C & J Specialty Fert.	18.1				
18-46-00	C & J Spec. Fert. Diamm. Phosph.	19.2				
20-10-10	Super Surge	20.4				
20-10-10	Super Surge Lawn Food	19.6				
<u>Chevron Chemical Co.</u>						
05-10-05	Ortho House Plant Food	5.5				

Manufacturer, guarantee, & brand	Nutrients found			Manufacturer, guarantee, & brand	Nutrients found		
	% Nitrogen	% P2O5	% K2O		% Nitrogen	% P2O5	% K2O
<u>Estech General Chemical Co.</u>							
05-10-05	Ortho House Plant Food (liq)	5.7	10.7	5.6	05-10-05	Gro-Tone P.Food All Purp./50% Org	6.6
05-10-10	Ortho Azalea, Cam. & Rhod. Food	6.1	10.5	9.6	05-10-05	K-Mart Lawn & Garden Food	9.7
05-10-10	Ortho Vegetable Garden Food	6.7	10.1	*8.0	05-10-05	Perk-up Plant Food	11.8
05-15-05	Ortho UP START Root Stimulator	5.2	15.1	5.2	05-10-05	Swift Lawn & Garden	5.5
06-09-05	Ortho African Violet Food	6.6	10.7	5.2	05-10-10	Red Steer	11.1
06-09-05	Ortho Liquid African Violet Food	6.3	9.1	6.0	05-10-10	Suburban	12.5
06-18-06	Ortho Tomato & Vegetable Food	5.6	*16.9	5.4	06-08-06	GroTone Evergreen Food 30% Org. N	6.5
08-08-08	Ortho Gen. Purpose Plant Food	8.4	7.3	8.5	10-03-06	Blue Seal Turf Green	11.2
10-08-07	Ortho Evergreen & Azalea Food	12.2	8.3	8.1	10-06-04	K-Mart Lawn & Garden Food	12.5
10-08-07	Ortho Fern & Ivy Food	9.8	7.9	7.1	10-06-04	K-Mart Weed & Feed	10.7
10-08-07	Ortho Fern & Ivy Food	11.4	8.1	8.1	10-06-04	Perk-up	10.4
12-06-06	Ortho-Gro Liquid Plant Food	12.6	6.1	6.6	10-10-10	Red Steer	13.4
<u>Chilean Nitrate Corp.</u>							
15-00-14	Champion Nitrate of Soda	*12.1		13.1	10-20-10	Corn Starter w/micronutrients	10.1
16-00-00	Champion Nitrate of Soda	*13.3			15-15-15	Red Steer	20.6
<u>Ciba-Geigy</u>							
20-20-20	Spectrum Earth Care Pro.Plnt Food	19.2	20.4	19.5	18-03-08	Vigoro Weed and Feed	18.9
<u>Clarel Laboratories</u>							
00-06-05	Granny's Bloomers African Violets		6.9	5.1	20-10-05	K-Mart Lawn Food	24.0
<u>Clinton Nurseries</u>							
04-10-10	New Era Flowering Plant Food	4.9	10.3	11.0	21-03-16	Par-Ex Slow Release Fertilizer	21.9
05-12-09	New Era African Violet Food	5.8	12.3	10.7	22-03-08	Vigoro Lawn Food	28.9
06-12-06	New Era Solid Plant Food	7.2	16.5	8.3	23-05-05	Gro-tone Weed Cont. + Lawn Food	26.7
07-15-08	New Era Plant Food	7.3	15.4	8.7	24-03-10	Par-Ex w/IRDV	24.3
08-08-08	New Era Plant Food	8.4	7.7	8.5	24-04-12	Vigoro Weed Control + Lawn Fert.	24.8
12-06-06	New Era 30 Day Food	14.4	7.7	8.3	27-03-03	K-Mart Super K-Gro Lawn Fert.	33.0
12-06-06	New Era Solid Plant Food	13.8	7.7	8.9	<u>Fer Mel Corporation</u>		
12-06-06	New Era Solid Plant Food	13.3	8.0	7.8	20-04-08	Fer-Mel Fairway Turf Food	20.5
<u>Crop Production Service</u>							
05-10-10	Agrico	10.0	14.2	11.3	20-05-10	Fer-Mel Fairway Turf	22.3
12-15-15	Crop Production Ser.	*5.3	*13.3	15.6	25-05-10	Fer-Mel Prem. Lawn Food	28.6
15-10-10	Agrico	23.3	11.5	10.2	<u>Holland Bulb Products</u>		
<u>Espoma</u>							
04-03-02	Espoma Plant-tone	6.8	5.0	2.1	09-09-06	Holland Bulb Booster	12.2
04-06-06	Espoma Garden-tone	4.7	7.2	*5.1	09-09-06	Holland Bulb Booster	10.0
04-10-06	Espoma Bulb-tone	6.0	13.9	6.5	<u>Hy-Trous</u>		
09-05-04	Espoma Tree-tone	11.7	5.1	6.4	04-12-04	Hy-Trous African Violet Liq. Fert	4.8
					05-10-05	Hy-Trous Liquid Fert.	*3.5
					05-10-05	Hy-Trous Liquid Fert.	5.7
<u>Hyponex Co.</u>							
04-10-05	Hypostyx Flowering Pl Fd Stks						
05-10-05	Hyponex House Plant Food All Purp						
06-06-06	Hyponex Afr. Violet Liq. Conc.						

Manufacturer, guarantee, & brand	Nutrients found		Manufacturer, guarantee, & brand	Nutrients found	
	% Nitrogen	% P2O5		% Nitrogen	% P2O5
06-06-06 Hyponex Plant Food	6.5	6.8	0. M. Scott & Sons		
07-06-19 Hyponex House Plant Food All Purp	7.8	6.5	18-24-06 Burpee Grow Vegetables	19.2	25.7
08-04-02 Hyponex All Org Fish Pl Fd Stks	10.0	6.7	18-24-06 Scott's Starter Fertilizer	18.2	24.6
10-05-05 Hyponex Bug Dart plus Plant Food	10.6	5.8	18-24-06 Scott's Transplants	19.9	24.1
10-05-05 Hypostyx Foliage Plant Fd Sticks	10.9	5.9	18-26-06 Scott's Starter Fertilizer	19.1	23.6
			27-03-03 Scott's Turf Builder	29.5	3.1
<u>International Spike</u>			27-03-03 Scott's Turf Builder	28.4	2.8
08-24-08 Jobe's Fertilizer Spikes	8.5	25.8	31-03-10 Scott's Lawn Pro Step 4 Lawn Fert	32.9	3.1
10-10-04 Jobe's Plant Food Spikes Fl.Plnts	12.3	11.6	32-03-04 Scott's Step 1 Grabgr. Prev/Fert.	34.2	4.7
12-04-07 Jobe's Fert. Spikes/Evgrn. Shrubs	15.5	4.2			
12-06-08 Jobe's Fert Spikes Evgrn Tr/Shr	16.3	9.0	<u>Old Fox Chemical Co.</u>		
13-04-05 Jobe's Plant Food Spikes Housepl.	13.3	4.7	00-00-60 Old Fox Bulk	5.9	64.9
13-05-07 Jobe's Fert. Spikes/Pl. Shrubs	17.7	6.9	05-10-10 Old Fox	5.2	10.1
16-08-08 Jobe's Fert. Spikes Trees/Shrubs	16.4	9.0	05-10-10 Old Fox	4.6	10.2
20-20-20 Jobe's Plant Food	*17.8	19.9	05-10-10 Old Fox	10.5	10.8
20-20-20 Jobe's Plant Food	*11.5	20.0	10-06-04 Old Fox Turf Food W/Natural Org. N	9.5	6.8
			10-10-10 Old Fox	*4.7	11.6
<u>J. T. Baker</u>			10-10-10 Old Fox	*4.7	11.3
09-09-06 One-A.Bulb Premium Fert. Tabs.	13.4	9.3	10-10-10 Old Fox	*8.9	12.7
<u>Lebanon Chemical Corp.</u>			12-02-08 Old Fox Fair Gran	12.8	14.4
09-05-03 Lebanon Acre	12.3	7.4	12-15-15 Old Fox Bulk	12.6	*12.0
09-08-08 Lebanon Rose Food	9.3	10.5	14-14-28 Old Fox Bulk	*12.2	17.3
09-17-09 Greenview Green Start	9.5	18.9	15-04-08 Holdridge Farm Nurs. Super Lawn	*13.5	34.8
10-06-04 Hart's Lawn Food	11.7	7.3	15-15-15 Old Fox	*14.0	20.4
10-10-10 Lebanon Multi Purpose	10.4	4.8	18-05-11-17.1 Old Fox	19.0	9.4
10-20-10 Greenview Garden Mate	10.8	*8.8	18-05-11-17.1 Old Fox	18.2	23.0
12-10-10 Greenview Shrub Mate	12.4	*18.3	19-19-19 Old Fox	19.0	21.7
12-10-10 Greenview Shrub-mate	12.9	10.8	20-04-08 Old Fox Gro Green W/Organic N	19.0	21.4
18-03-12 Lebanon Country Club	18.6	9.6		21.5	9.6
18-03-12 Lebanon Country Club	19.5	3.2	<u>Optiflora</u>		
22-04-04 Greenview Crabicide Green	28.7	3.8	14-12-14 Optimara Violet Food	13.7	12.1
30-04-04 Greenview Green Power	32.5	3.8			
<u>Loft's Pedigreed Seed</u>			<u>Plant Research Labs</u>		
13-11-15 Loft's Fall Feed & Seed Starter	*11.5	11.8	01-02-01 Oxygen Plus Indoor Plant Food	1.1	2.5
			01-03-02 Oxygen Plus African Violet Food	1.5	3.1
<u>Miller Chemical &amp; Fertilizer</u>			01-04-02 Roger's Gardens Oxygen+ Pl. Food	1.1	2.3
15-15-15 Miller Greenhouse Spec. Fert.	16.1	14.5	04-04-04 Roger's Gardens Oxygen+ Pl. Food	*1.5	3.6
15-16-17 Miller Greenhouse Spec. Sol. Fert	14.4	17.2			
<u>Nitrochem</u>			<u>Plantabbs Corp.</u>		
34-00-00 Bull's Eye Ammonium Nitrate	*31.0		11-15-20 Plantabbs African Violet	12.6	15.4
			11-15-20 Plantabbs House Plant Food	*9.2	16.0
			<u>Ra-Pid-Gro</u>		
			30-12-11 Ra-pid-gro Acidloving Plants	30.7	12.4
					11.3



Manufacturer, guarantee, & brand	Ra-pid-gro Evergree & Azalea Food	Nutrients found		Manufacturer, guarantee, & brand	Unifeed Plant Food	Nutrients found	
		% Nitrogen	% P2O5			% Nitrogen	% P2O5
32-10-10	Ra-pid-gro Evergree & Azalea Food	32.2	10.2	14-07-07	Unifeed Plant Food	17.9	10.4
<u>Ross Daniels</u>							
05-35-10	Ross Plant Food Cart For Iron Def	5.7	37.7	05-11-26	Peters Prof. H2O Sol. Hyd/Sol.	7.2	13.7
08-08-08	Ross Special Evergreen Stakes	12.4	19.3	07-40-06	MagAmp Plus K	7.2	47.2
08-16-16	Ross Gro-Stakes Fr/Orna/Tr/Shrubs	12.3	17.1	12-36-14	Peters Prof Sol Pl Fd Afr Violet	12.3	40.3
08-16-16	Ross Gro-Stakes Fruit & Ornament.	9.9	17.8	15-10-30	Peters Prof. H2O Sol. Fert/Mum Sp	*10.3	10.4
09-46-15	Ross Cartridges Fruits, Nuts, Tom	11.2	50.3	15-16-17	Peters Prof. H2O Sol. Fert./Peat	*12.8	16.0
10-10-10	Ross Gro-Stakes Evergreen	12.4	14.9	15-30-15	Peters Soluble Plant Food	15.0	30.4
10-20-10	Ross Planter's Punch Starter Fert	10.3	19.2	18-18-18	Peters Special Soluble Plant Food	*12.6	21.4
10-20-20	Ross Evergreens	12.2	26.5	20-10-20	Peters Pro. H2O Sol. Fert/Peat Sp	19.8	*16.7
10-25-15	Ross Cart Tree & Shrub Starter	13.4	28.3	20-20-20	Peters Prof Gen Purp Plant Food	*12.0	*8.2
16-04-08	Ross Gro Stakes Ev/Azal/Cam/Rhod	16.7	5.2	20-20-20	Peters Prof Sol Pl Fd Gen Purp	*12.6	20.2
16-10-09	Ross Gro-Stakes Trees & Shrubs	17.5	10.5			19.6	22.1
<u>Schultz Co.</u>							
10-15-10	Schultz-Instant Liq. Plant Food	10.2	*14.1	15.5-00-00	Vikingship Calcium Nitrate	17.5	
10-15-10	Schultz-Instant Liq. Plant Food	11.5	14.0				
<u>Sierra Chemical Co.</u>							
14-04-06	Agriform Container Tablets	17.4	5.1	14-14-14	Security Osmocote Fol&Pot Pl Fd	*7.6	14.2
14-14-14	Osmocote Cont. Rel Gert.	13.6	14.2				14.4
14-14-14	Osmocote Cont. Rel. Gert	13.6	14.2				
<u>Stern's Nurseries</u>							
15-30-15	Stern's Miracle-Gro Conc. Pl. Fd.	15.7	29.5				
30-10-10	Stern's Miracid Soil Acid/Pl. Fd.	31.4	11.2				
<u>Sudbury Laboratory</u>							
00-00-44	Sudbury Potash 0-0-44						
00-44-00	Sudbury Phosphorus 0-44-0		45.3				
44-00-00	Sudbury Nitrogen 44-0-0	50.3					
<u>Swift Agricultural Chemicals</u>							
10-05-05	Vigoro Liquid Plant Food	10.0	6.6				
<u>Swiss Farms</u>							
04-12-08	Swiss Farms Plant Food	4.9	13.1				
<u>Unifeed Div./Diamond Crystal Salt</u>							
10-20-05	Unifeed Plant Food	13.0	22.1				

Table 2. Summary for Each Manufacturer of Number of Claims for Individual Plant Nutrients, Percentage of Claims Not Meeting Guarantee, Average Percentage of Guarantee for Each Nutrient.

Company	No. Samples	Number of Claims			% Not Meeting Claim			Average % of Claim		
		N	P205	K20	N	P205	K20	N	P205	K20
Adco Works	1	0	0	0	-	-	-	-	-	-
Agrico	9	9	7	7	56	29	0	84	94	111
Agway	25	22	25	25	14	16	12	110	109	113
Alljack	1	1	1	1	0	0	0	112	111	133
Anderson	4	4	4	4	0	0	0	111	112	122
Atlas Fish Fertilizer	1	1	1	1	0	0	0	94	200	100
BFC Chemical	1	1	0	0	0	-	-	103	-	-
Burpee	5	5	5	5	0	0	0	104	99	118
Cadwell & Jones	20	20	19	19	40	47	5	98	92	107
Chevron	13	13	13	13	0	8	8	110	103	107
Chilean Nitrate	2	2	0	1	100	-	0	82	-	94
Ciba-Geigy	1	1	1	1	0	0	0	96	102	108
Clarel Laboratories	1	0	1	1	-	0	0	-	115	102
Clinton Nurseries	8	8	8	8	0	0	0	114	116	125
Crop Production Ser.	3	3	3	3	33	33	0	133	115	106
Espoma	4	4	4	4	0	0	25	142	132	115
Estech	23	23	23	23	0	13	4	136	133	129
FerMel	3	3	3	3	0	67	0	109	80	122
Holland Bulb	2	2	2	2	0	0	0	123	118	114
Hy-Trous	3	3	3	3	33	0	0	101	98	104
Hyponex	8	8	8	8	25	0	0	100	118	115
International Spike	9	9	9	9	22	0	0	109	116	123
J.T. Baker	1	1	1	1	0	0	0	149	103	117
Lebanon Chemical	12	12	12	12	0	17	8	111	109	130
Loft's Pedigreed Seed	1	1	1	1	100	0	0	89	107	133
Miller Chem. & Fert.	2	2	2	2	0	0	0	102	102	103
Nitrochem	1	1	0	0	100	-	-	91	-	-
O.M. Scott	8	8	8	8	0	0	0	107	107	126
Old Fox	17	16	16	17	25	50	6	97	95	122
Optiflora	1	1	1	1	0	0	0	98	101	105
Plant Research Labs.	4	4	4	4	25	0	0	110	105	111
Plantabbs	2	2	2	2	50	0	0	99	105	121
Ra-Pid-Gro	2	2	2	2	0	0	0	102	103	114
Ross Daniels	11	11	11	11	0	0	0	124	128	122
Schultz	2	2	2	2	0	50	0	109	94	107
Sierra Chemical	3	3	3	3	0	0	0	111	115	143
Stern's Nurseries	2	2	2	2	0	0	0	105	105	104
Sudbury Labs.	3	1	1	1	0	0	0	114	103	118
Swift Agric. Chem.	1	1	1	1	0	0	0	100	132	110
Swiss Farms	1	1	1	0	0	0	0	123	109	203
Unifeed/Diamond Cryst.	2	2	2	2	0	0	0	129	130	154
W.R. Grace	10	10	10	10	50	10	20	90	106	106
WGM/Hydro	1	1	0	0	0	-	-	113	-	-
Woolfolk Chemical	1	1	1	1	100	0	0	54	101	103

Table 3. Distribution of Mixed Fertilizer Sold in Connecticut July 1, 1983-June 30, 1984

GRADE	TONS
0-15-30	181
0-18-36	103
5-10 -5	1382
5-10-10	1046
6-24-24	18
10 -6 -4	1902
10-10-10	5701
10-16-20	60
10-20-10	381
10-20-20	360
12 -4 -8	31
14-14-14	32
15 -8-12	889
15-10-10	1446
15-15-15	716
18-46 -0	1388
20 -4-10	60
20 -8 -8	74
20-10-10	394
20-10-15	94
20-10-20	18
20-20-20	58
22 -4 -4	10
25 -3 -3	336
25 -5-10	184
26 -3 -3	519
27 -3 -3	197
28 -7-14	74
30 -0 -0	764
30 -4 -4	42
32 -4 -4	21
36 -4 -4	34
46 -0 -0	2235
TOTAL	20750
MISCELLANEOUS	21551
GRAND TOTAL	42301

Table 4. Tonnages of Fertilizer Materials and Mixed Fertilizers Sold in Connecticut July 1, 1983-June 30, 1984

COMMODITY	TONS
CHEMICAL NITROGEN	
Ammonium nitrate	386
Anhydrous ammonia	86
Calcium nitrate	93
Nitrogen solutions	1293
Sodium nitrate	7
Urea	256
Ureaform	512
Other nitrogen materials	25
TOTAL	2658
PHOSPHATES	
Bone meal	127
Phosphate rock	8
Superphosphate 20%	18
Superphosphate 46%	402
Other phosphate materials	545
TOTAL	1100
POTASH	
Muriate of potash	1206
Potassium sulfate	11
TOTAL	1217
NATURAL ORGANICS	
Composted cow manure	1183
Cottonseed meal	92
Dried blood	10
Dried manure	4403
Linseed meal	8
Sewage sludge	389
Gelatin	7
TOTAL	6092
SECONDARY AND MICRONUTRIENTS	
Aluminum	3
Borax	17
Iron	1
Magnesium	59
Sulfur	2
Miscellaneous	186
TOTAL	268
TOTAL-COMMODITIES	11355
TOTAL-COMMERCIAL FERTILIZERS	42301
GRAND TOTAL	53636











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